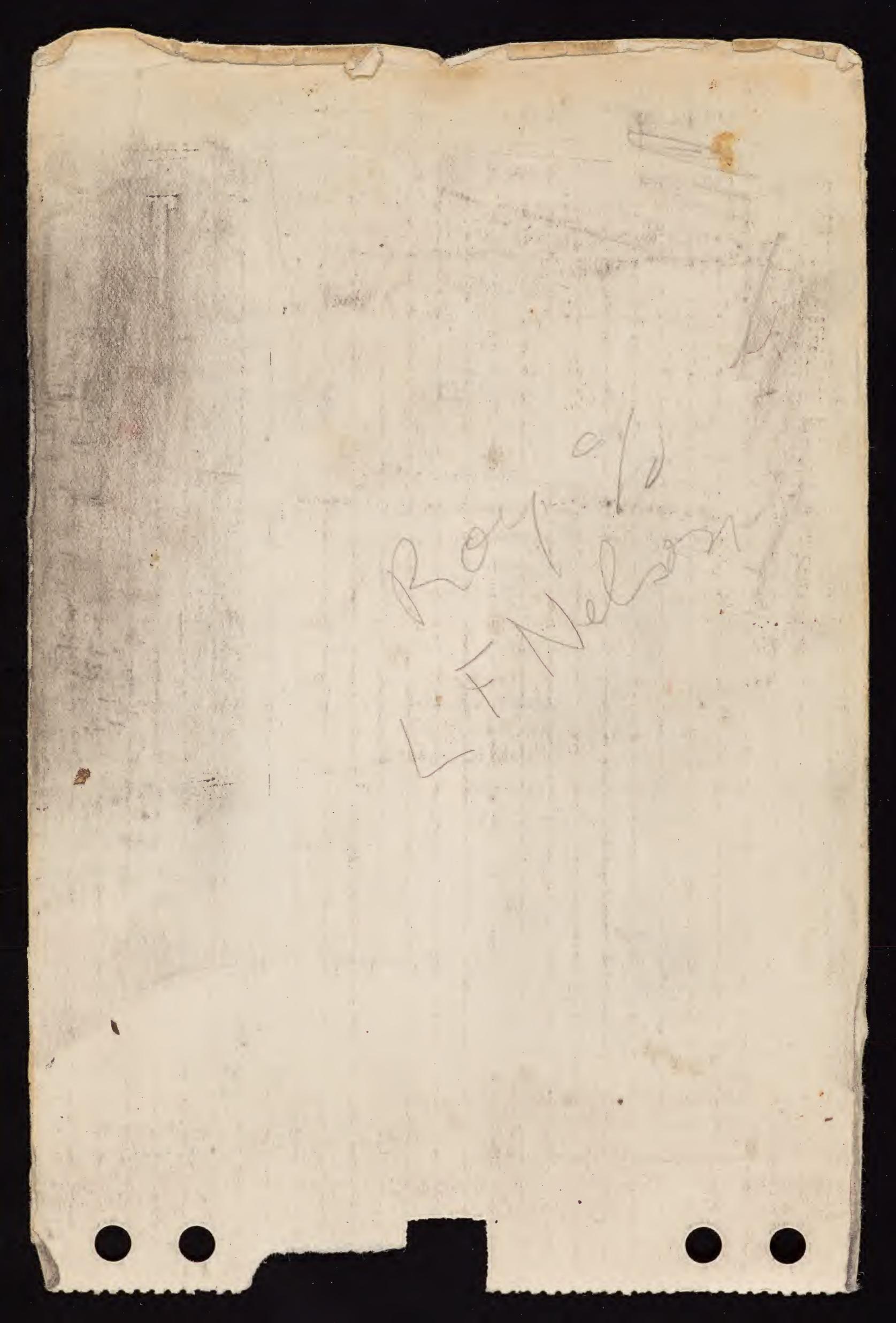
Slope Correction For 300 Ft. Tape $1^{\circ} - 0.4^{\circ} - 0.77^{\circ} - 2.2$ $1^{\circ} - 0.14^{\circ} - 0.77^{\circ} - 2.2$ $1^{\circ} - 0.14^{\circ} - 0.97^{\circ} - 2.6$ $2^{\circ} - 0.25^{\circ} - 1.18^{\circ} - 2.9$ $2^{\circ} - 0.35^{\circ} - 1.48^{\circ} - 3.3$ $3^{\circ} - 0.46^{\circ} - 1.69^{\circ} - 3.7$ $3^{\circ} - 30' - 0.66^{\circ} - 30 - 1.99^{\circ} - 30 - 4.1$

A.E. Kooter-aining monde house

CLAY DEPOSITS - ORDER OF WORK MINIM Topographic Map or Planimetric Map. Geologic Map and Geologic Field Notes. Geologic sketches and extra maps. Ex. Stanford Cross Section, Benson Pit, Canfield Pits, Rogers Pit. Petrographic Specimens and Specimen Catalogs Photographs and Photograph Catalog. OFFICE Bureau Drill Holes: Vertical and Horizontal Control. Flot them on map. 2. Copy Drill Hole logs. Copy Drill Hole- Sample assays. 144 Make Gross Sections. At right angles. Calculate tonnage from assays, logs, and assumed cutoff values. Write report. 1 Canted to E14 13 -00 OF 2021 1.05 Ex >

Mt. G. See Fradley (500) USG & F. 140, 1926 P-12-5. free blest 100377 4,00 -9:3 hund - 31 N70E 650 70'E. Margali



. Stebinger Tables

100 feet horizontal from M.M. Knechtel, U.S.G.S.

,											
0	0.000	25	0.245	50	0.4190.	75	0.735	100	0.980	125	1.225
1	0.0098	26	0.255	51	0.500	76	0.745	101	0.990	126	1.235
2	0.0196	27	0.265	52	0.510	77	0.755	102	1.000	127	1.245
3	0.0294	28	0.274	53	0.519	78	0.764	103	1.009	1.28	1.254
4	0.039	29	0.284	54	0.529	79	0.774	104	1.019	129	1.264
5	0.049	30	0.294	55	0.539	80	0.784	105	1.029	130	1.274
6	0.059	31	0.304	56	0.549	81	0.794	106	1.039	13/	1.284
7	0.069	32	0.314	57	0.559	82	0.804	107	1.049	132	1.294
8	0.078	3 3	0.323	58	0.568	83	0.8/3	108	1.058	133	1.303
9	0.088	34	0.333	59	0.578	84	0.823	109	1.068	134	1.313
10	0.098	35	0.343	60	0.588	85	0.833	110	1.078	135	1.323
//	0.108	36	0.353	61	0.598	86	0.843	111	1.088	136 °	1.333
12	0.118	37	0.363	62	0.608	87	0.853	112	1.098	137	1.343
13	0.127	38	0.372	63	0.617	88	0.862	113	1.107	138	1.352
14	0.137	39	0.382	64	0.627	89	0.872	114	1.117	139	1.362
	_							1.4			
15	0.147	40	0.392	65	0.637	90	0.882	115	1.127	140	1.372
16	0.157	41	0.407	66	0.647	91	0.892	116	1.137	141	1.382
17	0.167	42	0.412	67	0.657	92	0.902	117	1.147	142	1.392
18	0.176	43	0.471	68	0.666	93	0.911	118	1.156	143	1.401
19	0.186	44	0.431	69	0.676	94	0.921	119	1.166	144	1.4/11
*								154			
20	0.196	45	0.441	70	0.686	95	0.931	120	1.176	145	1.421
21	0.206	46	0.450	7/	0.696	96	0.941	121	1.186	146	1.431
22	0.216	47	0.461	72	0.706	97	0.951	122	1.196	147	1.441
23	0.225	48	0.470	73	0.715	98	0.960	123	1.205	148	1.450
24	0.235	49	0.480	74	0.725	99	0.970	124	1.215	149	1.460

150	1.470	180	1.764	210	2.058	240	2.352	270	2.646	300	2.940
151	1.480	181	1.774	211	2.068	241	2.362	271	2.656	301	2.950
152	1.490	182	1.784	212	2.078	242	2.372	272	2.666	302	2.960
153	1.499	183	1.793	213	2.087	243	2.381	273	2.675	303	2.970
154	1.509	184	1.803	214	2.097	244	2.391	274	2.685	304	2.980
				21						,	
155	1.519	185	1.813	215	2.107	245	2.401	275	2.695	305	2.990
156	1.529	186	1.823	216	2.117	246	2.411	276	2.705	306	3.000
157	1.539	187	1.833	217	2.127	247	2.421	277	2.715	307	3.010
158	1.548	188	1.842	218	2.136	248	2.430	278	2.724	308	3.020
159	1.558	189	1.852	219	2.146	249	2.440	279	2.734	309	3.030
160	1.568	190	1.862	220	2.156	250	2.450	280	2.744	310	3.040
161	1.578	191	1.872	221	2.166	251	2.460	281	2.754	311	3.050
162	1.588	1.92	1.882	222	2.176	252	2.470	282	2.764	312	3.060
163	1.597	193	1.891	223	2.185	253	2.479	283	2.773	3/3	3.070
164	1.607	194	1.901	224	2.195	254	2.489	284	2.783	314	3.080
				200							
165	1.617	195	1.911	225	2.205	255	2.499	285	2.793	315	3.090
166	1.627	196	1.921	226	2.215	256	2.509	286	2.803	316	3.100
167	1.637	197	1.931	227	2.225	257	2.519	287	2.813	317	3.110
168	1.646	198	1.940	228	2.234	258	2.528	288	2.822	3/8	3.120
169	1.656	199	1.950	229	2.244	259	2.538	289	2.832	319	3.130
170	1.666	200	1.960	230	2.254	260	2.548	290	2.842	350	3.140
171	1.676	201	1.970	231	2.264	261	2.558	291	2.852	321	3.150
172	1.686	202	1.980	232	2.274	262	2.568	292	2.862	322	3.160
173	1.695	203	1.989	233	2.283	263		293	2.871	323	3.170
174	1.705	204	1.999	234	2.293	264	2.587	294	2.881	324	3.180
									÷ 00.	22.5	
175	1.715	205	2.009	235	2.303		2.597	295		325	3.190
176	1.725	206		236	2.313	266	2.607	296	2.901	326	3,200
177			2.029	237	2.323	267		297	2.9.11	327	3.210
178	1.744	208	2.038	238	Z.332 Z.342	268	2.626	278	2.920	328	3.220
179	1.754	209	2.048	239	2.342	1267	2.636	4//	2, 430		5.250

										,	
330	3.240	360	3.538	390	3.832	420	4.146	450	4.470	480	4.746
331	3.250	361	3.548	391	3.842	421	4.157	451	4.479	481	4.755
332	3.260	362	3.558	392	3.852	422	4.168	452	4.488	482	4.764
333	3.270	363	3.567	393	3.861	423	4.178	453	4.498	483	4.774
334	3.280	364	3.577	394	3.87/	424	4.189	454	4.507	484	4.783
¢.											
335	3.290	365	3.587	395	3.881	425	4,200	455	4.516	485	4.792
336	3.300	366	3.597	396	3.891	426	4.211	456	4.525	486	4.801
337	3.310	367	3.607	397	3.901	427	4.222	457	4.534	487	4.810
338	3.320	368	3.616	398	3.910	428	4.232	458	4.544	488	4.820
339	3.330	369	3.626	399	3.920	429	4.243	459	4.553	489	4.829
					•						
340	3.340	370	3.636	400	3.930	430	4.254	460	4.562	490	4.838
341	3.350	37/	3.646	401	3.941	431	4.265	461	4.571	491	4.847
342	3.360	372	3-656	402	3.952	432	4.276	462	4.580	492	4.856
343	3.370	373	3.665	403	3.962	433	4.286	463	4.590	493	4.866
344	3.380	374	3.675	404	3.973	434	4.297	464	4.599	494	4.875
1											
345	3.390	375	3.685	405	3.984	435	4.308	465	4.608	495	4.884
346	3.400	376	3.695	406	3.995	436	4.319	466	4.617	496	4.893
347	3.410	377	3.705	407	4.006	437	4.330	467	4.6 26	497	4.902
348	3.420	378	3.714	408	4.016	438	4.340	468	4.636	498	4.912
349	3.430	379	3.724	409	4.027	439	4.351	469	4.645	499	4.921
350	3.440	380	3.734	410	4.038	440	4.362	470	4.654		
351	3.450	381	3.744	411	4.049	441	4.373	471	4.663	-	
352	3.460	382	3.754	412	4.060	442	4.384	472	4.672		
353	3.469	383	3.763	413	4.070	443	4.394	473	4.682		
354	3.479	384	3.773	414	4.081	444	4.405	474	4.691		
355	3.489	385	3.783	415	4.092	445	4.416	475	4.700		
356	3.499		3.793	416	4.103	446	4.427	476	4.709		
357	3.509	387	3.803	417	4.114	447	4.438	477	4.718		
358	3.518	388	3.812	418	4.124	448	4.448	478	4.728		
359	3.528	389	3.822	419	4.135	449	4.459	479	4.737		
-		1						1		1	

Schedule for Field Description of Sedimentary Rocks.

Note.—Define all terms that might be at all uncertain. Use metric units if possible. Describe first the largest units recognized, then those of the next order, and so on down to the smallest.

- A. External form of the rock unit. Lenticular, persistent, very regular in thickness, etc.; dimensions.
- B. Color. Color of unit as a whole, wet or dry, according to Ridgway or Munsell color system, or color card of this committee.

C. Bedding.

- 1. How manifested: Sharp, by partings, by difference in texture, color, etc.; transitional; shaly (see introductory note).
- 2. Shape of bedding surfaces: Plane, undulating, ripple-marked, etc.; irregular; if not plane, give details of form and dimensions of features.
- 3. Thickness of beds: Comparative thicknesses; different orders. Relation of thicknesses; rhythmic; random. If variable, relation between thickness and composition, bedding, etc.
- 4. Attitude and direction of bedding surfaces: Horizontal, inclined, curved. Relation to each other: Parallel, intersecting, tangential; angles between different attitudes and directions; dips, strikes; dimensions; relation of size, composition, shape, etc., to attitude and direction; relation of composition to different types of bedding.
- 5. Markings of bedding surfaces: Mud cracks, rain prints, bubble impressions, ice-crystal impressions, trails, footprints, etc.
- 6. Disturbances of bedding: Edgewise or intraformational conglomerates, folding or crumpling of individual beds before consolidation, etc.

D. Composition.

- 1. Inorganic constituents.
 - a. Mineralogy or lithology of principal constituents.
 - b. Size: Prevailing size if fairly uniform; range in sizes if not; proportions of different sizes as determined by sieving where feasible; distribution of sizes with relation to other features; vertical and lateral variations in size.
 - c. Shape: Crystalline (automorphic), angular, subangular, subrounded, rounded; relation of shape to size, material, position in beds, etc. For quantitative results on pebbles, etc., estimate or measure radius of curvature of sharpest edge, mean radius, and maximum and minimum diameter.

D. Composition-Continued.

1. Inorganic constituents—Continued.

- d. Character of surface: Glossy, smooth, mat, pitted, chatter marked, etc.
- c. Orientation: If not equidimensional, direction of greater dimensions with respect to bedding, to each other, etc.
- f. Chemical and internal physical condition: Fresh, weathered, decomposed, cracked, etc.
 - g. Packing: Closeness and manner.
 - h. Pore space.
- i. Cement: Present or absent; proportion; composition; variations in composition vertically and laterally and in relation to other characters; disposition with respect to bedding, fractures, etc.
- j. Color: Wet or dry; location, inherent or as a stain in constituents or cement; variations and their relation to other factors, as composition, porosity, bedding, fracturing, fossils.

2. Organic constituents.

- a. Kinds.
- b. Size: Does the distribution of sizes show effects of mechanical deposition?
- c. Condition: Entire, fragmented, partly dissolved, etc. Relation to kinds.
- d. Distribution: With respect to character of beds, kinds of organisms, bedding, evidence of burrowing, etc.
- e. Orientation: With respect to bedding; with respect to life habits, possible manner of death, etc.

E. Concretions.

- 1. Form, size, color, composition, and their variations.
- 2. Internal structure; central nucleus organic or inorganic; central hollow; homogeneous; banded horizontally, concentrically, etc.; radial; compact; vesicular.
- 3. Boundary against country rock: Sharp, transitional with or without change in character.
- 4. Relation of bedding to concretions: Continuous through concretions; deflected above, below, or both; thinned above, below, etc.
- 5. Distribution: Random; regular; if regular, intervals between groups (layers), vertically and horizontally; differences between characters of concretions in different groups (layers). Relation of distribution to other characters, as mechanical, chemical, or organic composition of country rock; jointing, fissuring, folding, etc., of country rock; topography; ground-water level; etc.

 GOVERNMENT PRINTING OFFICE

Formation:

Bed no:

Coseil collection no:

Distance above base of formation:

Distance above base of member:

Thickness of bed:

Distance of some above base of bed:

Lithology of bed:

Pocognizable genera, appolies, etc. end pot. of car

Istribution within bed:

Liecollaneous notes:

collectors:

Trench:	Ge	eologist:	Date:	
19471				Bed
Color				Sam- ple
				Thick- ness
Reaction to HCl				Rock Name
Hardness				Number and thickness of lithologic units
Fossils				Thickness of layers
Mineral Composition				Nature of contact with bed below
Component Particles Size				Gradation of lithology within bed
Shape				Fractures or joints

Form 9-076 NAME DATE U. S. GOVERNMENT PRINTING OFFICE 16-37601-1

CORRECTIONS FOR EARTH CURVATURE AND REFRACTION Derived from FORMULA- .00000002059 x (Distance in Feet)² or .574 x (Distance in Miles)².

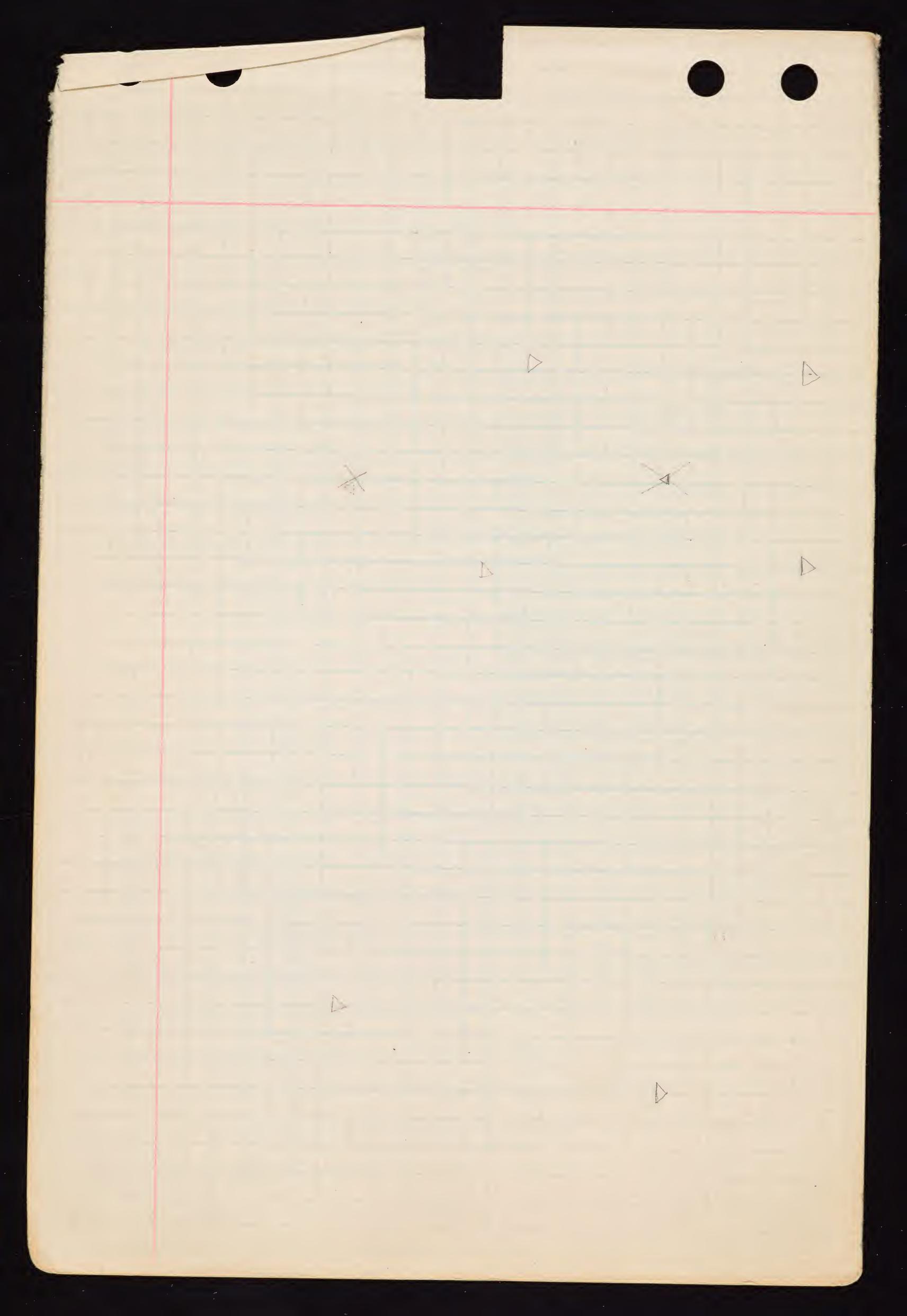
		or	.574 X	(Dist	ance in						
DISTANCE (100s of feet)	Correction (Feet)	DISTANCE (100s of feet)	Correction (Feet)	DISTANCE (1008 of feet)	Correction (Feet)	DISTANCE (100s of feet)	Correction (Feet)	DISTANCE (100s of feet)	Correction (Feet)		
50	.5	200	8.2	350	,25.2	500	51.5	650	87.0		
55	.6	205	8.7	355	26.0	505	52.6	655	88.4		
60	.7	210	9.1	360	26.7	510	53.6	660	89.7		
65	.9	215	9.5	365	27.4	515	54.6	665	91.1		
70	1.0	220	10.0	370	28.2	520	55.7	670	92.4		
75	1.2	225	10.4	375	29.0	525	56.7	675	93.8		
80	1.3	230	10.9	380	29.8	530	57.9	680	95.2		
85	1.5	235	11.4	385	30.6	535	59.0	685	96.6		
90	1.7	240	11.9	390	31,3	540	60.1	690	98.0		
95	1.9	245	12.4	395	32.1	545	61.1	695	99.5		
100	2.1	250	12.9	400	33.0	550	62.3	700	100.8		
105	2.3	255	13.4	405	33.8	555	63.5	705	102.3		
110	2.5	260	13.9	410	34.6	560	64.6	710	103.8		
115	2.7	265	14.5	415	35.5	565	65.8	715	105.3		
120	3.0	270	15.0	420	36.3	570	66.9	720	106.7		
125	3.2	275	15.6	425	37.2	575	68.1	725	108.2		
130	3.5	280	16.2	430	38.1	580	69.3	730	109.7		
135	3.8	285	16.7	435	39.0	585	70.5	735	111.2		
140	4.0	290	17.3	440	39.9	590	71.7	740	112.7		
145	4.3	295	17.9	445	40.8	595	72.9	745	114.2		
150	4.6	300	18.5	450	41.7	600	74.2 75.4	750 755	115.8		
155	4.9	305	19.2	4 55 4 60	42.6 43.6	605	76.7	760	118.9		
160	5.3	310 315	19.8	465	44.5	615	77.9	765	120.4		
170	6.0	320	21.1	470	45.5	620	79.2	770	122.0		
175	6.3	325	21.7	475	46.5	625	80.5	775	123.6		
180	6.7	330	22.4	480	47.5	630	81.8	780	125.2		
185	7.0	335	23.1	485	48.5	635	83.1	785	126.8		
190	7.4	340	23.8	490	49.5	640	84.4	790	128.5		
195	7.8	345	24.5	495	50.5	645	85.7	795	130.1		
				,				800	131.7		

9/11/46 P.5-42 SEG SWG SEC. 9 T.6N, R38E Treasure 6 Mart. So. of Finch, Mont.
Collafter 4 days min.
Section (hand level). alluvium 0 above canal Top 7 Canal 40 alove Cinterval alicours sample Ph. 1 Dark gray shale 491 Lighter gray shale 53 Ph. 3 80 Sandy sh-Sandy gb.
1't below hard 55. payer. 921 Shely sand soft Light brown 1021 trom 103 to 119 117 : (22 shale parting's tom ss. 2'-3' helow cap ghard ss. at . 117' 1 1 1 2 4 2 4 2 4 Interchedded hard and soft ss. 128' Sec Bull 512 p. 9-9, Rig pl. 2A Shows outerop.

Beaman. 1. Put gum or rod Level Beaman bubble 3 More langered screw to read whole bearings 4. record interval, read center harrowing 5. Read Stadia 6 Read Horizontal correction Interval & beamon 7 tod = d. H. El. 8.0x beaman trod = diff. el. Over the red 1, Put Top hat at base a rod. 2. rest Stebbinger drum. 3. More stellunger so top bair is top grad. 4 read drum. 5 Move Stebbunger so bottom bair is 6 head drum. Res Z

Summer 1946 Alzada Baroid, Paris Drill Carral, Ballantine Mond 125, 932 de 6/11/46 213 Spence Dome Wyo. Cable Tool Irill 6/15/46 Oil well#14 -> Et June 14, 1946 f33, 25 ds 19 Sec. 4 T5411 R 95W. 6 Ember Bulazila Wya, v = 22 7 1/2/19 Bentonite mue 6 mi, from Cody +8,25 A June 15, 1946 9100 Ahr -> NW Black Beer Yellowston f1625 35 + 41h Ausco Supreme Ansco Supreme. Old forthful \$ 16 700 d Yellowstone falls f32 50 d up

spec. 1. June 5 - Green horn Ls. shally lied associalis with formal see. Folio 108 about 4 mi. W. - Z Edgessrout, D.D. N z highway #18, N. side 7 NW gully about you cliff, in middle of cliff - weathord sufface timy ale makes E. freing scarp. Localety near Top y bell Day hogbach za. delaw top dentomile 26. frelaco Louerst 1, See R. C.Sp , Key Bentonite in S.W. & Dakota
Univ S.D. G.S. Rept invest. #36



10201 - 25 V Juliacette Report Jerine Prom. Fir Bleeff Starteon Mile Post 29 (Stanford Cert) - Man 5 5 5 8 4 A constribution to The Latabet Flans Idaho Thomas R. Ashlee, 1932. Northwest Screwer 126.6 # 28.69 -1.9 7 P.70 = 71. NW Secon 1 Davis 1940 USGS 11P 154/t 1926

